

CLAIMS

What is claimed is:

1. A method comprising:
formatting a media key block to include a first record containing header information for media key records; and
adjusting the length of the media key records to guarantee that individual key data in each media key record is contained in a single data transfer unit of the given media.
2. The method of claim 1, wherein media key record headers contain a length field.
3. The method of claim 1, wherein media key record headers include a column field.
4. The method of claim 1, further comprising:
storing the media key block in a physical media.
5. The method of claim 4, wherein the physical media is a Digital Versatile Disk (DVD)- compliant media.
6. The method of claim 4, wherein the physical media is logically divided into at least one block.
7. The method of claim 1, wherein the first record containing header information for media key records is the first record of the media key block.
8. The method of claim 1, wherein adjusting the length comprises changing the value in the length field of at least one media key record.
9. The method of claim 1, wherein adjusting the length of the media key records to guarantee that individual key data in each media key record is contained in a single data transfer unit comprises aligning one or more fields to guarantee that they are contained within a single data transfer unit.

1 10. The method of claim 1, wherein adjusting the length of the media key records
2 to guarantee that individual key data in each media key record is contained in a
3 single data transfer unit further comprises guaranteeing that each media key record
4 is contained within a single data transfer unit.

1 11. A method comprising:
2 reading a first record containing header information for one or more media key
3 records; and
4 accessing at least one of the one or more media key records.

1 12. The method of claim 11, further comprising:
2 determining which of the one or more media key records should be accessed
3 based on the header information found in the first record.

1 13. The method of claim 11, wherein the accessing at least one of the one or
2 more media key records comprises:
3 seeking the physical location of the at least one media key record on a
4 physical media.

1 14. The method of claim 11, wherein the accessing at least one of the one or
2 more media key record comprises:
3 reading the at least one media key record from a physical media.

1 15. The method of claim 11, further comprising:
2 calculating a media key from the information in the at least one media key
3 record.

1 16. The method of claim 15, wherein only the necessary records to calculate the
2 media key are accessed.

1 17. A machine-readable medium comprising at least one instruction to access
2 and process a media key block which when executed by a processor, causes the
3 processor to perform operations comprising:

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reading a first record of the media key block containing header information for one or more media key records; and
accessing at least one of the one ore more media key records.

18. The machine-readable medium of claim 17, further comprising:
determining which of the one or more media key records should be accessed based on the header information found in the first record.

19. The machine-readable medium of claim 17, wherein accessing at least one of the one or more media key records comprises:
seeking the physical location of the at least one media key record.

20. The machine-readable medium of claim 19, further comprising:
calculating a media key from the information in the at least one media key record.

21. The machine-readable medium of claim 20, further comprising:
verifying the calculated media key to determine if a match has been found.

22. The machine-readable medium of claim 20, wherein calculating the media key, only the necessary media key records are accessed.

23. A device comprising;
a machine-readable physical media;
a media key block, including one or more media key records, contained within the physical media; and
a first record, within the physical media, including header information for at least one of the one or more media key records.

24. The device of claim 23, wherein the machine-readable media is a Digital Versatile Disk (DVD)- compliant media.

25. The device of claim 23, wherein the machine-readable physical media is a rotational media.

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1 26. The device of claim 23, further comprising:
2 digital data contained within the physical media.

1 27. The device of claim 26, wherein the digital data contained within the physical
2 media is encrypted.

1 28. The device of claim 26, wherein the digital data contained within the physical
2 media can only be decrypted by calculating a media key from data within the at least
3 one of the one or more media key records.

1 29. The device of claim 23, wherein the physical media is logically divided into at
2 least one block.

1 30. The device of claim 29, wherein each of the at least one of the one or more
2 media key records includes data fields, each data field contained within a single data
3 transfer unit for the given media.